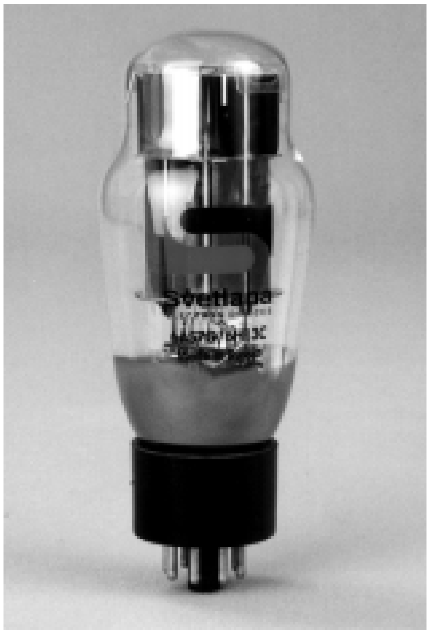


Svetlana 6AS7

Dual Power Triode for High Performance Audio Applications

The Svetlana™ 6AS7 is a glass envelope, dual power triode with high transconductance and high plate current capacity. Each triode has a plate dissipation rating of 13 Watts with convection cooling. It is intended for low distortion audio frequency power amplification service in either single or push-pull/parallel tube applications. The Svetlana 6AS7 has an indirectly-heated unipotential cathode. The heater may be DC operated for the absolute best hum/noise performance.

The Svetlana 6AS7A was originally designed as a series pass tube in regulated power supplies. Low plate resistance makes it an excellent choice in OTL and other high performance audio circuits. Close manufacturing specification tolerances and improved processing provides enhanced reliability and superior sonic performance.

The Svetlana 6AS7 is manufactured in the Svetlana factory in Russia, and is designed to be a direct replacement for any 6AS7.

General Characteristics

Electrical

Heater:	Min.	Nom.	Max.	
Voltage (AC or DC)	5.7	6.3	6.9	V
Current		2.5		A
Cathode:		Oxide-coated, unipotential		
Cathode-to-heater potential, max.			± 300	V
Direct interelectrode capacitances, max.***				
Grid to cathode			8	pF
Plate to cathode			3	pF
Grid no.1 to plate			11	pF

Mechanical

Operating Position**	Any
Base	JEDEC 8BD, octal 8-pin
Maximum dimensions:	
Height	140 mm (5.51 in.)
Diameter	52 mm (2.05 in.)
Cooling	Convection
Approximate net weight	90g (3.2 oz.)

***When mounting horizontally, pins 1 & 8 must be in the same horizontal plane*

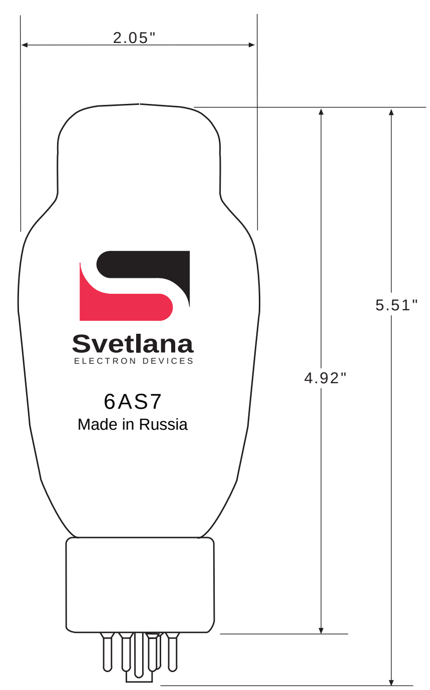
****Without external shielding, nominal values*

AF Power Amplifier

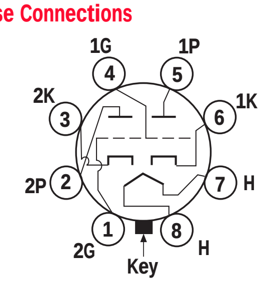
Maximum ratings (per triode)

DC plate voltage	250	V
Transconductance (typical)	5500	µS
Grid no.1 (control) voltage	-150	V
DC cathode current	130	mA
Plate Resistance	280	Ω
Plate dissipation	13	W
Bulb temperature (surface hottest point)	250°	C

Svetlana 6AS7 Outline Drawing



Bottom View
Octal Base Connections



Svetlana
ELECTRON DEVICES

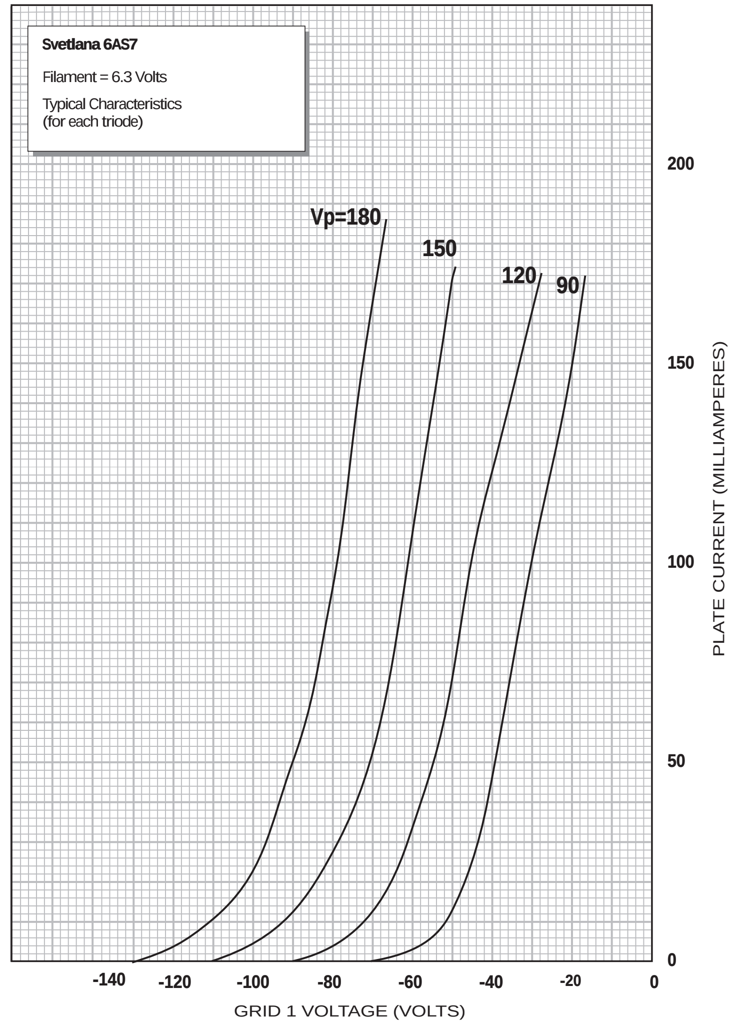
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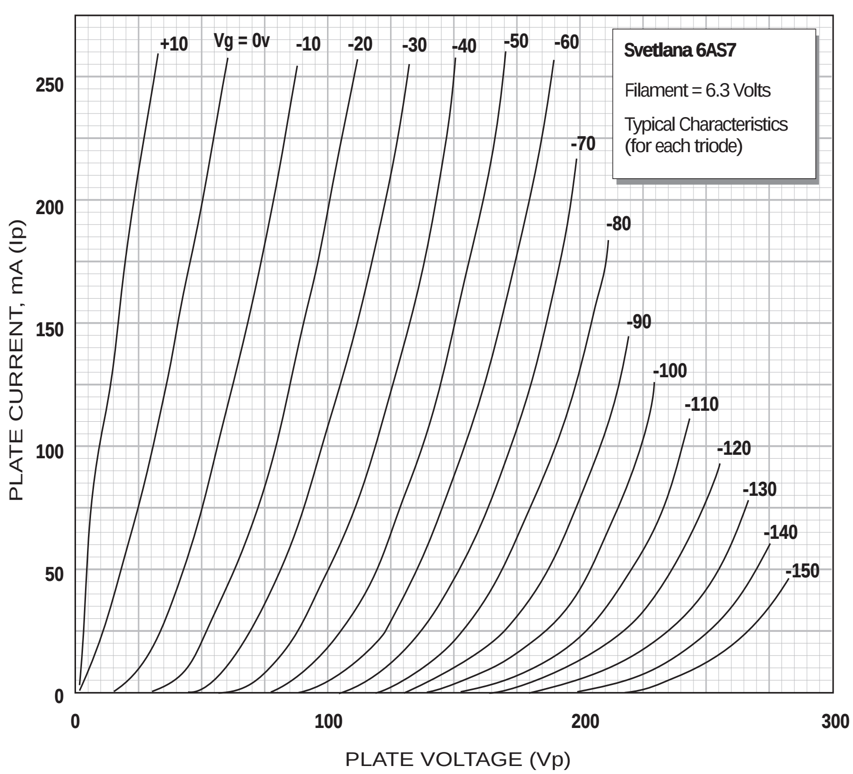
Svetlana 6AS7

Dual Power Triode for High Performance Audio Applications



Typical Operation, Audio Power Amplifier, Class A, Two Triodes, Push Pull

Plate voltage	*250*	*V*
Zero signal plate current	*80*	*mA*
Max signal plate current	*110*	*mA*
Cathode resistor (each triode)	*1250*	*Ohms*
Peak grid to grid AF signal	*250*	*Vp-p*
Effective Load resistance	*6000*	*Ohms*
Power output	*10*	*W*



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